
CHANGE NOTICE

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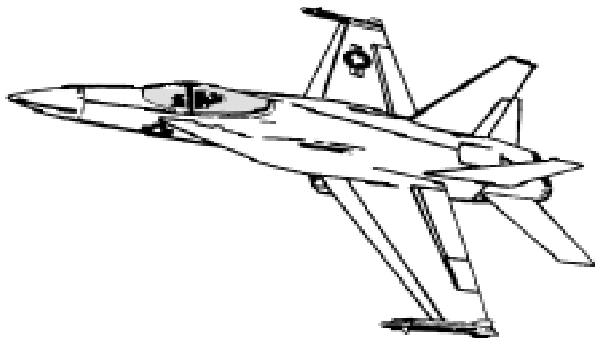
Conventional Weapons

CHECKLIST

F/A-18

ECM

ALE-39/ALE-47



REPRINT

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NATEC ELECTRONIC MANUAL

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Insert latest change pages; destroy superseded pages in accordance with applicable regulations.

Dates of issue for original and change pages are:

Basic0 (IRAC 1 Incorporated)15 Mar 2002

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Total number of pages in this checklist is 14, consisting of the following:

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INTRODUCTION

This checklist contains abbreviated procedures to load and unload the ALE-29 and ALE-47 Dispenser magazines on the F/A-18 aircraft.

REQUIRED READING

Loading crew members may perform several steps simultaneously provided they do not invalidate or interfere with a preceding or subsequent step and safety precautions are strictly observed.

The steps within this checklist to SAFE racks mean rotation of ground safety handle to the LOCKED position.

Ensure compliance/incorporation of the following Technical Directives, as applicable:

TECHNICAL DIRECTIVE

1. AVC-5149

SUBJECT

AN/ALE-39 Countermeasures Dispensing System, Modification of.

RESTRICTIONS:

1. None.

REQUIRED READING (Continued)

TEST EQUIPMENT/SPECIAL TOOLS:

1. Allen Wrench 5/32-inch
2. Torque Wrench 0-100 inch pounds
3. Proximity switch control

For specific flight authorization, refer to the Tactical Manual. The procedures in this checklist have been verified for the following weapon:

AN/ALE-29 Dispenser Magazine

AN/ALE-47 Dispenser Magazine

AIRCRAFT PREPARATION/INSPECTION

1. Release and Control Systems Checks completed()
2. Loaded stations - SAFE()

WARNING

DO NOT RESET ALE-39 SYSTEM WITH LOADED
MAGAZINES INSTALLED.

3. (If applicable) Reset ALE-39 system as follows:
 - a. Armament switches positioned (Table 1)()

WARNING

PRIOR TO APPLYING POWER, COCKPIT
SWITCHES MUST BE READY TO RECEIVE
POWER.

- b. Connect Proximity Switch Control()
- c. Apply electrical power()
- d. GND PWR control panel:
 - (1) EXT PWR-RESET then NORM()
 - (2) Switch 3-A ON()

WARNING

DO NOT CONNECT PROXIMITY SWITCH
CONTROL TO AIRCRAFT WITH AIRCRAFT
LAUNCH BAR IN THE DOWN POSITION.

- e. (If applicable) Close AN/ALE-39 CONT and AN/ALE-39
PWR circuit breakers()
- f. (If applicable) Push ECM electrical safety switch in,
turn clockwise to ARM (flush)()

WARNING

DO NOT ACTUATE ANY SWITCH ON THE
PROXIMITY SWITCH CONTROL EXCEPT AS
CALLED FOR.

- g. Proximity Switch Control: RIGHT MAIN, NOSE
GEAR-WT OFF WHEELS()

AIRCRAFT PREPARATION/INSPECTION (Continued)

- h. BUNO 161353 thru 163782:
 - (1) Master Arm Control Panel: Master switch to ARM()
 - (2) Nose wheelwell: ARMAMENT OVERRIDE-OVERRIDE ..()
- i. ECM control panel:
 - (1) DISPENSER-C()
- j. Programmer:
 - (1) Reset-RESET for 5 seconds then release()
- k. ECM control panel:
 - (1) DISPENSER-OFF()
- l. Proximity Switch control:
 - (1) RIGHT MAIN, NOSE GEAR-NORM()
- m. BUNO 11353 thru 163782:
 - (1) Master Arm Control Panel: MASTER switch to
SAFE()
- n. GND PWR control panel:
 - (1) EXT PWR - OFF()
- o. (If applicable) Open ALE-39 CONT and AN/ALE-39
PWR circuit breakers()
- p. (If applicable) ECM electrical safety switch
SAFE (Extended)()
- q. Disconnect/Remove Proximity Switch Control()
- r. (If applicable) Remove electrical power()
- 4. (If applicable) ALE-39 dispenser housing plug(s)
and 32 pin connector(s) NOT damaged (Fig. 1)()
- 5. (If applicable) ALE-47 dispenser housing plug(s)
and 48 pin connector(s) NOT DAMAGED (Fig. 2)()

Table 1. Aircraft Armament Switches

PANEL	SWITCH	POSITION
MC/HYD ISOL	MC	NORM
NUC WPN SWITCH	NUC WPN	DISABLE (down position)
GND POWER CONTROL	1 2 3 4 EXT PWR	AUTO AUTO AUTO AUTO OFF
LEFT VERTICAL	SELECT JETT JETT (pushbutton)	SAFE off
MASTER ARM CONTROL	MASTER EMERG JETT (pushbutton)	SAFE Yellow/Brass ring not visible
ECM CONTROL (NOTE 1) ICMDS (NOTE 2)	AUX REL ECM DISPENSER MODE SEL RWR	NORM OFF OFF STBY OFF
ANTENNA SELECT CONTROL PANEL (NOTE 3 and 4)	ALE-39 RESET	OFF
EMERGENCY JETTISON	(rear cockpit) EMERG JETT	Yellow/Brass ring not visible
ITALD CONTROL (If installed)	INSTM POWER CIRCUIT BREAKER	OFF RESET
AN/ALQ-167 CONTROL (If installed)	PWR	OFF
MAP GAIN CONTROL	IR COOL	(NOTE 5)
COMMUNICATION	WPN VOL control	LOW
FWD/REAR COCKPIT	All other switches	OFF, SAFE, or NORMAL
<p style="text-align: center;">NOTE</p> <p>1. 161353 thru 164980 2. 165171 and UP 3. 161353 thru 163175 4. 163427 thru 164980 5. Without AIM-9L/M or with AIM-9X -OFF position, and NORM position with AIM-9L/M</p>		

AIRCRAFT PREPARATION/INSPECTION (Continued)

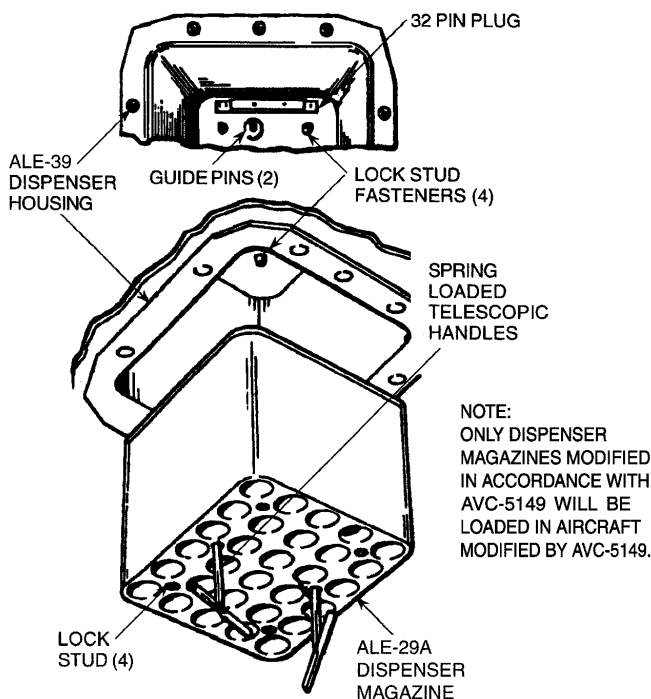


Figure 1. ALE-29A Dispenser Magazine and ALE-39 Dispenser Housing

AIRCRAFT PREPARATION/INSPECTION (Continued)

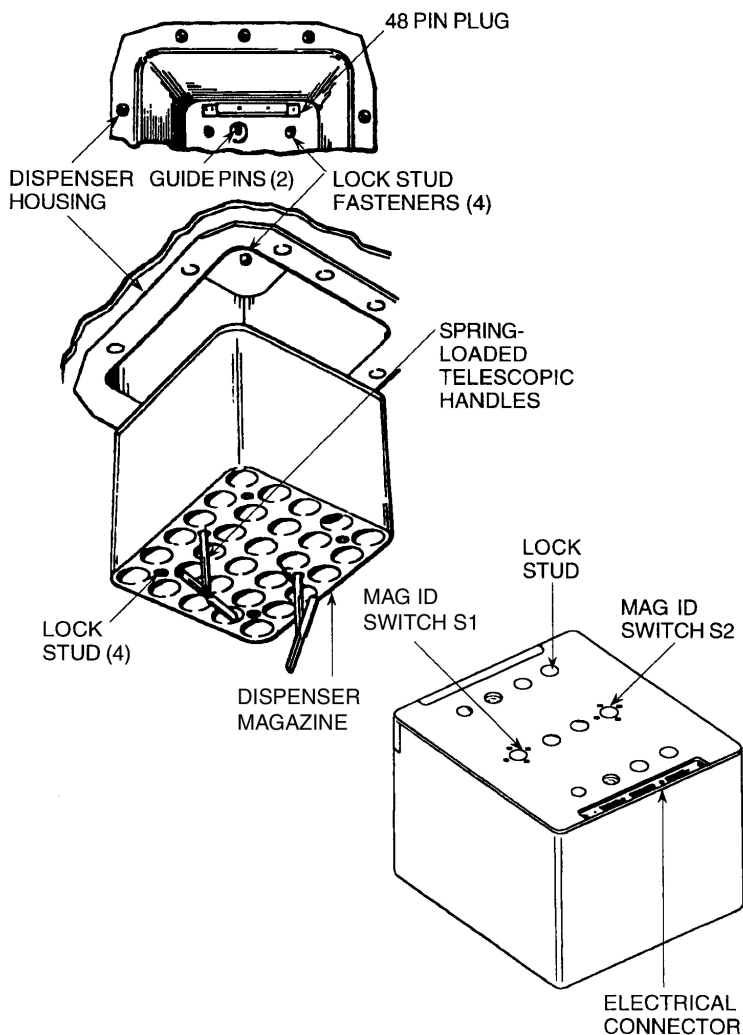


Figure 2. ALE-47 Dispenser Magazine and Dispenser Housing

WEAPON INSPECTION

NOTE: (AN/ALE-29) DISPENSER MAGAZINE MODIFIED BY AVC-5149 CAN ONLY BE LOADED IN AIRCRAFT MODIFIED WITH AVC-5149.

1. Dispenser magazine NOT damaged()
2. Loaded in accordance with operational plan()
3. (ALE-47) MAG ID switches S1 and S2 set in accordance with operational plan()
4. (If applicable) 32-pin connector and circuit board clean; NOT damaged()
5. (If applicable) 48-pin connector and circuit board clean; NOT damaged()
6. Lock studs and spring-loaded telescopic handles NOT damaged()

WEAPON LOADING

A. PREPARATION

1. Aircraft Preparation/Inspection and Weapon Inspection completed()
2. (If applicable) Power removed()
3. Aircraft grounded()
4. Armament switches positioned (Table 1)()
5. Place WEAPON LOADED sign in cockpit()

B. LOADING

1. Release spring loaded telescopic handles()

CAUTION

(ALE-29A) IF MAGAZINE DOES NOT SEAT FULLY, 32-PIN CONNECTOR MAY BE DAMAGED.

CAUTION

(ALE-47) IF MAGAZINE DOES NOT SEAT FULLY, 48-PIN CONNECTOR MAY BE DAMAGED.

NOTE:

(AN/ALE-29) DISPENSER MAGAZINE MODIFIED BY AVC-5149 CAN ONLY BE LOADED IN AIRCRAFT MODIFIED WITH AVC-5149.

2. Insert dispenser magazine into dispenser housing()
3. (ALE-29) Torque lock studs in an X pattern to 55 ± 5 inch-pounds (in 10 inch-pound increments)()
4. (ALE-47) Torque lock studs in an X pattern to 70 ± 5 inch-pounds (in 10 inch-pound increments)()
5. Secure spring-loaded telescopic handles()

POSTLOADING INSPECTION

1. Armament switches positioned (Table 1)()
2. WEAPON LOADED sign in cockpit()
3. Programmer and counters set as directed()
4. (If applicable) Door 10R open, circuit breakers AN/ALE-39
CONT and AN/ALE-39 PWR-OPEN()
5. ECM electrical safety switch-SAFE (extended)()

WEAPON UNLOADING

A. PREPARATION

1. (If applicable) Power removed()
2. Aircraft grounded()
3. Loaded stations - SAFE()
4. Armament switches positioned (Table 1)()
5. WEAPON LOADED sign in cockpit()
6. (If applicable) Verify circuit breakers AN/ALE-39
CONT and AN/ALE-39 PWR-OPEN()
7. (If applicable) ECM electrical safety switch-SAFE
(extended)()

B. UNLOADING

1. Release spring-loaded telescopic handles()
2. Release lock studs()
3. Remove magazine(s)()
4. Remove/stow WEAPON LOADED sign()

